International application No.

PCT/NZ2004/000227

A. .	CLASSIFICATION OF SUBJECT MATTER			
Int. Cl. 7:	E01F 15/02		'	
According to	International Patent Classification (IPC) or to both r	ational classification and IPC		
В.	FIELDS SEARCHED			
Minimum docu	mentation searched (classification system followed by cla	ssification symbols)		
	searched other than minimum documentation to the extent 1F 15/00, 15/02, 15/04, 15/06	nt that such documents are included in the fields search	ned	
	base consulted during the international search (name of d F 15/IC and cable+ and (tortuous+ or twist+ or			
C.	DOCUMENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where appropriate, of the relevant passages			
. A	WO 1996/029473 A1 (DAVIDSEN) 26 Sep See whole document	1		
A	WO 1999/032728 A1 (AUTOSTRADA DEL BRENNERO S.P.A.) 1 July 1999 See whole document			
A	WO 1998/044203 A1 (SICKING et al) 8 Oct See whole document	1		
A	US 5967497 A (DENMAN et al) 19 October 1999 See whole document			
X F	urther documents are listed in the continuation	of Box C X See patent family anne	ex	
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "T" later document published after the international filing date or priority date and n conflict with the application but cited to understand the principle or theory				
"E" earlier application or patent but published on or after the "X" docu international filing date or ca		derlying the invention cument of particular relevance; the claimed invention cannot cannot be considered to involve an inventive step when the c		
or which is cited to establish the publication date of invo		cument of particular relevance; the claimed invention cannot be considered to volve an inventive step when the document is combined with one or more other		
"O" documer	at referring to an oral disclosure, use, exhibition	ch documents, such combination being obvious to a person slocument member of the same patent family	ciuco in the art	
"P" document published prior to the international filing date but later than the priority date claimed				
Date of the actu	al completion of the international search	Date of mailing of the international search report		
22 November 2004 Name and mailing address of the ISA/AU		3 DEC 2004		
AUSTRALIAN PO BOX 200, V	PATENT OFFICE WODEN ACT 2606, AUSTRALIA pct@ipaustralia.gov.au	BARRY STEPHENS Telephone No: (02) 6283 2106		

International application No. PCT/NZ2004/000227

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to
		claim No.
	GB 2224528 A (BRITISH ROPES LIMITED) 9 May 1990	
A	See whole document	1
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International application No.

PCT/NZ2004/000227

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)
Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows: 1. The impact head as claimed in claims 1-8 and included in claims 9-11, claim 17, and method claim 20. These claims include cable routing means configured to form a tortuous path through which a cable can be threaded, this arrangement being considered a first "special technical feature". during an impact.
[continued in Supplemental Box]
1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest
No protest accompanied the payment of additional search fees.

International application No.

PCT/NZ2004/000227

Sup	plem	ental	Box
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(To be used when the space in any of Boxes I to VIII is not sufficient)

Continuation of Box No: III

- 2. A guardrail as claimed in claims 12-15, 18 and 19, including at least one cable provided along at least part of the length of a plurality of slidably-interconnected rails wherein each end of the cable is fixed in relation to the ground and an impact slider means substantially surrounds a first rail and includes a portion that gathers and retains rails during an impact. This arrangement is considered to comprise a second "special technical feature".
 - 3. A frangible fastener as claimed in claim 16, including a head portion having a minimum cross-sectional diameter greater than the maximum cross-sectional diameter of a tail portion and a shank portion including a frangible zone having a minimum cross-sectional diameter smaller than the tail portion's maximum cross-sectional diameter. This arrangement is considered to comprise a third "special technical feature".

Although the impact head of claim 17 and the guardrail of claim 18 include the frangible fastener of claim 16, the three groups of claims considered as a whole do not share any of the identified special technical features, and therefore a technical relationship between the claims, as defined in Rule 13.2, does not exist. Accordingly, the international application does not relate to a single invention, or to a single inventive concept.

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report		Patent Family Member					
wo	1996/029473	AU	49399/96	DK	27795		<u>-</u>
wo	1999/032728	AU	20545/99	BR	9807715	CA	2280017
		EP	0924347	EP	0968333		-
wo	1998/044203	AU	66787/98	CA	2285217	EP	1015699
		NZ	337858	US	5775675	US	5924680
		US	6109597				
US	5967497	AU	97114/98	EP	0924348	· NO	985847
		NZ	332805	•			
GB	2224528	AU	44506/89	CA	2002442	DK	554089
		EP	0369659				
		GB	2224528	HU	55456	${f n}$	92204
		NZ	231326	PT	92221	TR	27232
		US	5039066				
		ZA	8908455				

Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

END OF ANNEX